

4. SPECIFICATIONS FOR THE REQ

Delivery, installation and commissioning of four (4) ultralow freezers with CO2 backup systems

Specifications for ultralow freezers	Yes	If no please specify
Temperature Range: Programmable setpoint from min higher than -50°C to -86°C		
Capacity: minimum of 566.3 Litres		
Dimensions Interior (H x D x W): less or equal to 706 x 470 x 1687 mm		
Dimensions Exterior (H x D x W): less or equal to 1031 x 848 x 2438 mm		
Display / user interface: Push Button LED		
Insulation: High Density Polyurethane Foam		
Access Security: Key Lock		
Monitoring and sensor compatibility: Thermo Scientific Smart-View Compatible (already installed as facility)		
Defrost: Manual		
Compressor Capacity: equal or more than 730W		
Service plan to be included		
Specify warranty provided		
Energy efficiency: more or equal to 10 kWh per day (preferred)		
Temperature uniformity: Max variation less than 5°C		
Refrigerant: Liquid CO2		
Cooling performance: $\leq -70^{\circ}\text{C}$		
Display: LED		
Alarm: Low battery, sensor error, main power off		
Battery longevity: ≥ 48 hours.		

The specifications of equipment listed above may contain errors or omissions bidders requested to highlight and suggest correct specification

Locations

Pretoria (Roodeplaat East):

Agricultural Research Council – **Plant Health and Protection (1 freezer)**

GPS coordinates: 25°36'55.4"S 28°21'51.9"E

Biosystematics (Roodeplaat West; VIMP campus)

Agricultural Research Council – **Plant Health and Protection**

Biosystematics: (2 freezers)

KwaMhlanga/Moloto Road (R573)

GPS: 25°36'17"S 28°21'07"E

Vredenburg:

Agricultural Research Council – **Plant Health and Protection (1 freezer)**

Vredenburg farm/campus-off Adam Tas road (Behind Distell)

Stellenbosch